

SEQUENCE LISTING

<110> FISHEL, Richard A.
GRADIA, Scott
ACHARYA, Samir

<120> COMPOSITIONS, KITS, AND METHODS FOR EFFECTING ADENINE
NUCLEOTIDE MODULATION OF DNA MISMATCH RECOGNITION
PROTEINS

<130> 9855-6U3

<140> Not Yet Assigned

<141> 2001-08-22

<150> US 60/093,935

<151> 1998-07-23

<150> US 60/066,977

<151> 1997-11-28

<150> US 60/057,136

<151> 1997-08-28

<150> US 09/143,571

<151> 1998-08-28

<160> 36

<170> PatentIn Ver. 2.1

<210> 1

<211> 39

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DNA Substrate

<400> 1

cggcgaattc caccaagctt gatcgctcga ggtaccagg

39

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DNA Substrate

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39

<210> 3

<211> 39

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DNA Substrate

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cctggtacct cgagcgatcg agcttggtgg aattcgccg

39

<210> 4

<211> 81

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA Substrate

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aaagctggag ctgaagctta gcttaggatc atcgaggatc gagctcggcg caattcagcg 60
gtaccaatt cgccctatag t 81

<210> 5

<211> 81

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DNA Substrate

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actatagggc gaattgggta ccgctgaatt gcaccgagct cgatcctcga tgatcctaag 60
ctaagcttca gctccagctt t 81

<210> 6

<211> 81

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DNA Substrate

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ctaagcttca gctccagctt t 81

<210> 7

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: p53 Primers

<400> 7

gtgtttcatt agttccccac cttgac 26

<210> 8

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: p53 Primers

<400> 8

atgggaggct gccagtccta accc 24

<210> 9

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: p53 Primers

<400> 9

gtgggaggga caaaagttcg aggcc 25

<210> 10

<211> 25

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: p53 Primers

<400> 10

tttacggagc cctggcgctc gatgt

25

<210> 11

<211> 19

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Mouse DXMIT6
Primers

<400> 11

accattcaaa ttggcaagg

19

<210> 12

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Mouse DXMIT6
Primers

<400> 12

gtggctcgag ttgtttgcag

20

<210> 13

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: MSH
Subcloning Linkers

<400> 13

gatccgagaa cctgtacttc caggacata tggccatggg taccg

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<210> 14
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<223> Description of Artificial Sequence: MSH
Subcloning Linkers

<400> 14
aattcgtac ccatggccat atgtccctgg aagtacaggt tctcg

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<210> 15
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<223> Description of Artificial Sequence: hMSH2
Truncation Primers

<400> 15
gcggatccca tgg

13

<210> 16
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<223> Description of Artificial Sequence: hMSH2
Truncation Primers

<400> 16
ggaggatccc ta

12

<210> 17
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<223> Description of Artificial Sequence: hMSH2
Truncation Primers

<400> 17
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<210> 18
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<212> DNA
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<223> Description of Artificial Sequence: hMSH2
Truncation Primers

<400> 18
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33

<210> 19
<211> 15
<212> DNA
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<223> Description of Artificial Sequence: hMSH2 Primers

<400> 19
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15

<210> 20
<211> 15
<212> DNA
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<223> Description of Artificial Sequence: hMSH2 Primers

<400> 20
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15

<210> 21
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<223> Description of Artificial Sequence: DNA Linkers

<400> 21

gcggatccca tggattttct agagaaattc

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<210> 22

<211> 42

<212> DNA

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<223> Description of Artificial Sequence: DNA Linkers

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42

<210> 23

<211> 12

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: hMSH3 Primer

<400> 23

gcggtgaccg gt

12

<210> 24

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<223> region I of hMSH2

<400> 24

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Leu Ala Ala Arg Glu
20

<210> 25

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<223> region II of hMSH2

<400> 25

Thr Pro Gln Gly Gln Arg Leu Val Asn Gln Trp Ile Lys Gln Pro Leu
1 5 10 15

Met Asp Lys Asn Arg Ile Glu Glu Arg Leu Asn Leu Val Glu Ala Phe
20 25 30

Val

<210> 26

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<223> region III of hMSH2

<400> 26

Leu Lys Ala Ser Arg His Ala Cys Val Glu Val Gln Asp Glu Ile Ala
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Phe Ile Pro Asn Asp Val Tyr Phe Glu Lys Asp Lys
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<210> 27

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<223> region IV of hMSH2

<400> 27

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Thr Gly Val Ile Val Leu Met Ala Gln Ile Gly Cys Phe Val Pro Cys
20 25 30

Glu Ser Ala Glu Val Ser Ile Val Asp Cys Ile Leu Ala Arg Val Gly
 35 40 45
 Ala Gly Asp Ser Gln Leu Lys Gly Val Ser Thr Phe Met Ala Glu Met
 50 55 60
 Leu Glu Thr Ala Ser Ile Leu Arg Ser Ala Thr Lys Asp Ser Leu Ile
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 Leu Ala Trp Ala Ile Ser Glu Tyr
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<210> 28
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 <212> PRT
 <213> Homo sapiens

<220>
 <223> region V of hMSH2

<400> 28
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 Gly Ile His Val Ala Glu Leu Ala Asn Phe Pro Lys His Val Ile Glu
 20 25 30
 Cys Ala Lys Gln Lys Ala Leu Glu Leu
 35 40

<210> 29
 <211> 834
 <212> PRT
 <213> Homo sapiens

<400> 29
 Met Ala Ser Leu Gly Ala Asn Pro Arg Arg Thr Pro Gln Gly Pro Arg
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 Pro Gly Ala Ala Ser Ser Gly Phe Pro Ser Pro Ala Pro Val Pro Gly
 20 25 30
 Pro Arg Glu Ala Glu Glu Glu Glu Val Glu Glu Glu Glu Glu Leu Ala

300

Ser Arg Pro Arg Tyr Ser Pro Gln Val Leu Gly Val Arg Ile Gln Asn

805

810

815

Asp Leu Asn Val Phe Met Ser Gln Glu Val Leu Pro Ala Ala Thr Ser
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Ile Leu

<210> 30

<211> 2734

<212> DNA

<213> Homo sapiens

<220>

<223> coding region of hMSH5 cDNA from residue 102-2606

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<211> 19

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<223> Description of Artificial Sequence: hMSH5 Primers

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<210> 32

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: hMSH5 Primers

<400> 32

tgcaaggcca ttgttcact

19

<210> 33

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

